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Canada Centre for Mineral and Energy Technology | Centre canadien de la technologie des minéraux et de l'énergie

LIST OF CERTIFIED EQUIPMENT AND MATERIALS FOR USE IN UNDERGROUND MINES

J.A. Bossert, G. Lobay & M.S. Ralph

CANADIAN EXPLOSIVE ATMOSPHERES LABORATORY

March 1986

CANADA
EMR

83 pp

MINERAL AND ENERGY TECHNOLOGY
MINING RESEARCH LABORATORIES
DIVISION REPORT M&ET/MRL 86-41(TR)

87-06444

LIST OF CERTIFIED EQUIPMENT AND MATERIALS FOR USE IN UNDERGROUND MINES

by

[1]J.A. Bossert, [2]G. Lobay, [3]M.S. Ralph

INTRODUCTION

In 1955, Energy, Mines and Resources Canada, under Order-in-Council R.C. 1958-313, initiated a Certification Service for electrical equipment for use in coal mines where explosive mixtures of methane and air may occur. Later, as the demand for certification of mining equipment and materials grew, this service was expanded to cover other aspects of safety and health in underground mining.

Today, this includes such diverse subjects as: flame- proof electrical equipment, flameproof diesel-powered equipment, diesel equipment for non-gaseous mines, fire-resistant conveyor belting, fire-resistant and static-free ventilating ducts, intrinsically safe electrical equipment, combustible gas detection systems, fire-resistant electrical cables and fire-resistant hydraulic fluids.

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[1]Manager and Certification Officer; [2]Head, Certification; [3]Quality Assurance Examiner; Canadian Explosive Atmospheres Laboratory, Mining Research Laboratories, CANMET, Energy, Mines and Resources Canada, Ottawa.

LISTE DE MATÉRIEL ET DE MATÉRIAUX CERTIFÉS POUR UTILISATION DANS LES MINES SOUTERRAINES

par

J.A. Bossert[1], G. Lobay[2], M S Ralph[3],

INTRODUCTION

En 1955, Énergie, Mines et Ressources Canada a mis sur pied, en vertu du décret du conseil R.C. 1958-313, un service de certification du matériel électrique destiné à être utilisé dans les mines de charbon souterraines à cause des mélanges explosifs de méthane et d'air qui peuvent s'y trouver. Par la suite, pour satisfaire à la demande croissante de certification de matériel et de matériaux d'exploitation de mine, on a élargi la gamme de services de certification de façon à couvrir d'autres aspects de la sécurité et de la santé dans les mines souterraines.

Ces aspects touchent aujourd'hui le matériel électrique antidéflagrant, le matériel diesel antidéflagrant, le matériel diesel pour les mines non grisouteuses, les courroies de convoyeur ignifugées, les conduites d'aérage ignifugées et antistatiques, la sécurité intrinsèque du matériel électrique, les systèmes de détection de grisou, les fils et câbles électriques ignifugés et les liquides hydrauliques ininflammables.

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[1]Gestionnaire et agent certificateur; [2]Chef, Certification; [3]Contrôleur de la qualité; Laboratoire canadien de recherche sur les atmosphères explosives, Laboratoires de recherche minière, CANMET, Énergie, Mines et Ressources Canada, Ottawa.

GENERAL

The following list represents a complete revision of earlier lists. All obsolete equipment and material from previous lists has been deleted to make it more meaningful. While every attempt has been made to have the list as complete and correct as possible, we recognize that there may be errors or omissions and cannot accept responsibility for hardship to any company whose product has been listed incorrectly or omitted.

When in doubt about any listing, the user should contact one of the authors of this document for verification by telephone, telex, or by writing to:

Canadian Explosive Atmospheres Laboratory
555 Booth St.
Ottawa, Ontario, Canada
K1A 0G1

Telex - 053-3586
Telephone - (613) 996-4570

- J.A. Bossert - ext. 138
- G. Lobay - ext. 128

As new products are being certified continuously, a list such as this cannot possibly be complete except on the date of issue. This material is computerized, however, so that an updated list or verification of any new certificates can be obtained by communicating with the authors.

GÉNÉRALITÉS

La liste qui suit constitue une révision complète des listes précédentes: tout le matériel et tous les matériaux désuets des essis précédents en ont été omis pour une pertinence accrue. Même si tout a été fait pour rendre la liste aussi complète et juste que possible, nous reconnaissons que des erreurs et des omissions ont pu se produire et nous ne pouvons accepter aucune responsabilité en ce qui a trait aux torts subis par une compagnie quelconque dont le produit a fait l'objet d'une erreur ou a été omis.

En cas de doute au sujet d'un produit quelconque, l'utilisateur doit entrer en contact avec l'un des auteurs du présent document par téléphone, télex ou par lettre, pour des éclaircissements:

Laboratoire canadien de recherche sur les explosifs
555, rue Booth
Ottawa (Ontario) Canada
K1A 0G1

Telex - 053-3586
Téléphone - (613) 996-4570

- J.A. Bossert - poste 138
- G. Lobay - poste 128

Étant donné que nous certifions continuellement des produits nouveaux, une liste comme la présente ne peut être complète, sauf à la date de publication. Cependant, le contenu est mis sur ordinateur de sorte qu'une liste à jour de toute section peut être obtenue en tout temps. Il suffit d'en faire la demande à l'adresse ci-dessus. En outre, on peut communiquer avec les auteurs pour avoir des éclaircissements en ce qui a trait à toute nouvelle certification.

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CATEGORY 2 - FLAMEPROOF ELECTRICAL EQUIPMENT

Holder of Certificate	Description	Certificate No	Effective Date
Allen-Bradley Canada Ltd. 135 Dundas Street Cambridge, Ontario N1R 5X1	Bulletin 836 Pressure Switches	298	May 24, 1977
American Davidson Inc. One Westinghouse Plaza Hyde Park MA, Boston 02136	Mine Ventilation Fans Van Axial Flow Type "Kite" Series H38/100 - 38" Diameter and Centrifugal Types, BAB 42 Airfoil Series With Van Inlet Control	526	Aug. 15, 1983
Anderson Strathclyde PLC 47 Broad Street Glasgow, G40 2QW Scotland, U.K. Canadian Agent: Minelec Ltd. 2610 Dunwin Drive Mississauga, Ontario L5L 1J5	RH25 Roadheader, Rated at 157 KW, 1100 VAC	588-01	Nov. 5, 1985
	Flameproof Electrical Road Heading Machine Model RH22, Rated at 1100 Volts max., 3 Phase, 60 Hz	588	Nov. 5, 1985
	Flameproof Electrical Test Plug Type A75401 Rated to 1100 VAC max.	585	Nov. 19, 1984
	Flameproof Electrical Plugs and Sockets, Cable Couplers, and Interrupted Pilot Adaptors; Types A757D1, A757, and A757C1 Respectively	584	Nov. 19, 1984
	Flameproof Electrical Bolted Type Plug & Socket Type A728P; Rated to 550 VAC max., 6 pins max.	586	Nov. 20, 1984

CATEGORY 2 - FLAMEPROOF ELECTRICAL EQUIPMENT (Cont'd)

Holder of Certificate	Description	Certificate No	Effective Date
Appleton Electric Limited 750 Lawrence Street Cambridge, Ontario N3H 2N1	Series XP1 Panelboards Rated at 120 V, 240 V, or 347 V, 2 or 3 Phase, 100 or 225 A, 12 and 24 Branch Circuits	459	Nov. 2, 1982
	"Codemaster C" AE Series	390	Feb. 9, 1981
Bacharach Instrument Company Mountain View California, USA	Type 800-086 Sensor Housing for Bacharach Series Model 800 Gas Detection Units	486-01	Sept. 12, 1985
Canadian Agent: Canada Ltd. Creek Road Richmond Hill, Ontario L4B 1E7			Safety Supply 90 West Beaver
NEI Baldwin and Francis Ltd. Sheffield, England	Flameproof Heater Switches Type CU1100/DOS	349	Oct. 2, 1979
Canadian Agent: Cape Breton Development Corp. P.O. Box 2500 Sydney, Nova Scotia B1P 6K9			
Beaver Construction Group 1800 Hymus Boulevard Dorval, Quebec H9P 2N6	500 Gallon Water Heater Serial No. 1: Rated at 36 kW, 3 Phase, 600 VAC	490	Mar. 16, 1983
	Flameproof Alternator Assembly Rated at 12 Volts DC, 20 Amps	521	Sept. 29, 1983

CATEGORY 2 - FLAMEPROOF ELECTRICAL EQUIPMENT (Cont'd)

Holder of Certificate	Description	Certificate No	Effective Date
B.I.C.C. Components Ltd. Runcorn, Cheshire, England	Fire-Resistant Cable Glands for "Teck 90" Cables Type BARR-CB,	523	Aug. 12, 1983
Canadian Agent: Phillips Cables Ltd. King Street West Brockville, Ontario K6V 5W4	Design Nos. 424CB-03 through -09 Trade Sizes 0.75 to 3.5 in.		
	ESB 66/300 6.6 kV Mining Cable Coupler and Gland Sets	434	Apr. 8, 1982
Bonar Long Limited East Kingsway Dundee Scotland DD4-7RP	Transformers, Air Cooled, Types 350 FP/C 500 FP/C, 750 FP/C, and 1000 FP/C, Rated 300 to 1000 kVa, Primary to 6.6 kV max., Secondary to 3.3 kV max.	620	Oct. 30, 1985
Canadian Agent: 2610 Dunwin Drive Ontario L5L 1J5			Minelec Limited Mississauga,
Brook Motors Limited Huddersfield, England Canadian Agent: Hawker Siddeley Electric Motors (Canada) Inc. Tong Street Bradford, England BD4 9NQ	Motors, EEMAC Frame Sizes E143T to 445T, 0.5 HP to 150 HP, 1100 VAC max.	549-01	Feb. 11, 1985
NEI Mining Equipment (Canada) Ltd. 18 Queen Elizabeth Drive Toronto, Ontario M8Z 1M3	Frames E215T, E256T, E405TS and E444T	340	June 19, 1979

CATEGORY 2 - FLAMEPROOF ELECTRICAL EQUIPMENT (Cont'd)

Holder of Certificate	Description	Certificate No	Effective Date
British Jeffery Diamond Thornes Moor Road Wakefield, West Yorkshire WF2 8P5	Flameproof Mining Motor Type F35 and Controls with Intrinsically Safe Circuits	358-01	Nov. 26, 1981
	Flameproof Electric Mining Motor Type FDM and Controls with Intrinsically Safe Circuits	358	Feb. 6, 1980
Brush Transformers Limited P.O. Box 20 Loughborough, Leicestershire LE11 1HN	LBB Switch Disconnector Rated up to 12 kV, 630 A and 60 Hz	466	Oct. 4, 1982
	Flameproof Electric Mining Transformers Type FP Mark II, III, IV, and V	353	Oct. 2, 1979
	Flameproof Electrical Motors Frames EC100 to EC200 and E100-E200 Inclusive, E200/21, EC200/21 and E132S	369-01	June 4, 1985
	Range of Motors, Frame E355, Rated up to 570 kW	637	Nov. 28, 1985
Cape Breton Development Corp. P.O. Box 2500 Sydney, Nova Scotia B1P 6K9	Flameproof Electrical Closed Circuit Television System for Prince Mine No. 2 Slope Haulage	569	Mar. 18, 1984
Chromalox Canada Limited 210 Rexdale Boulevard Rexdale, Ontario M9W 1R4	Range of Electric Heaters, Type FPEP, Rated to 1000 Watts max., 240 VAC max., Single Phase	602	Mar. 21, 1985
CMP Glands Limited Newcastle Upon Tyne St. Peters, England NE6 1BS	Bolted Flameproof Cable Couplers and Adapters Type CC75/500	342	May 11, 1979

Holder of Certificate	Description	Certificate No	Effective Date
Canadian Agent: Minelec Ltd. 2610 Dunwin Drive Mississauga, Ontario L5L 1J5			
Communication and Control Engineering Co. Ltd. Park Road Calverton, Nottingham, England NG14 6LL	Type 98 Calstar Fluorescent Lighting Fixture	546	Nov. 29, 1983
	Control Desk Model CP1 with Intrinsically Safe Circuits in Flameproof Enclosures	355	Jan. 25, 1980
	Power Supplies, Housed in Flameproof Enclosures, with Intrinsically Safe Outputs, Types DC2 (12VDC) DC3 (18VDC), DC4 (7.5VDC), Input to 1100 VAC	629	Sept. 17, 1985
Consultant Electrical Design Services Ltd. Downing Street Sutton-in-Ashfield, Nottinghamshire, England NG17 4EF	Fluorescent Lighting Fixtures Type 1525, 2, 4, 5 Foot Lengths	377	Feb. 17, 1981
Crompton Parkinson Motors Ltd. Netherfield Road Guiseley, Leeds, U.K. LS20 9NZ Canadian Agent: Brook Crompton Parkinson Motors Ltd. Tong Street Bradford, England BD4 9NQ	Motors, EEMAC Frame Sizes E143T to 445T, 0.5 HP to 150 HP, 1100 VAC max.	549-01	Feb. 11, 1985

CATEGORY 2 - FLAMEPROOF ELECTRICAL EQUIPMENT (Cont'd)

Holder of Certificate	Description	Certificate No	Effective Date
Crouse-Hinds Canada Ltd. 1160 Birchmount Road Scarborough, Ontario M1P 2B9	Type FLS Disconnect Switch Rated at 600 VAC max., 225 Amps max.	598	Feb. 7, 1985
	Electrical Junction Boxes Type GUB	516	June 28, 1983
	EFS and EFD Series Tumbler Switch Condulets	005	July 31, 1958
	Hazard Gard III Mercury Vapour Fixtures	275	May 30, 1975
Dosco Overseas Engineering Ltd. British Fields Ollerton Road Tuxford, Newark, Notts, England NG22 OPQ	Mark II B Roadheader	580	Apr., 2, 1985
	Model LH 1300 Roadheader, Rated to 1100 Voltes, 3 Phase	580-01	Sept. 27, 1985
	Flameproof Electrical Roadheader MKIIA Rated at 550 or 110 V, 3 Phase, 60 Hz, 150 A or Less	356	Jan. 28, 1980
Eickhoff Manufacturing Ltd. P.O. Box 2000 200 Park West Drive Pittsburgh, Penn, U.S.A. 15230 Canadian Agent: Atlas Copco Canada Ltd. P.O. Box 745 Pointe Claire - Dorval, Que. H9R 4S8	Flameproof Electrical Road Cutting Machine Model ESA-60-L, Rated at 600 VAC, 60 Hz, 60 kW	570	June 19, 1984

CATEGORY 2 - FLAMEPROOF ELECTRICAL EQUIPMENT (Cont'd)

Holder of Certificate	Description	Certificate No	Effective Date
EIM Electric Co. Ltd. 1393 1 Aza Vohikawalata Inokuma, Fukuoka 807 Japan Canadian Agent: Wajax Industries Ltd. 3280 Wharton Way Mississauga, Ontario L4X 2C5	Type EL-52X Electric Mine Drainage Pump	299	May 27, 1977
	Flameproof Electric Submersible Pumps Models EL-52X, EH-52X, EH-85X, EH-102NX, EL-104X, H-154X, H-200FX, H-200FX-2	299-01	Aug. 3, 1982
Elektro-Mechanik Gmbh Wendenerhutte (EMG) D-5963 Wenden Biggetal 2 West Germany Canadian Agent: Mondel Engineering Ltd. 2610 Dunwin Drive Mississauga, Ontario L5L 1J5	ELDRO Electro-Hydraulic Thrustors, 600 VAC max., 1 kW max., Range of thrusts from 300 Nt to 63000 Nt, Range of Stroke from 50 to 120 mm	642	Dec. 17, 1985
Envirotech Corp. P.O. Box 1211 Salt Lake City, Utah, U.S.A. 4110 Canadian Agent: Wajax Industries Ltd. 1060 King's Road Sydney, Nova Scotia B1S 1G7	Flameproof Electric-Hydraulic Multi-purpose Tracked Vehicles Models 612H and 625HD	475	Aug. 9, 1983

CATEGORY 2 - FLAMEPROOF ELECTRICAL EQUIPMENT (Cont'd)

Holder of Certificate	Description	Certificate No	Effective Date
Envirotech Corp. P.O. Box 1211 Salt Lake City, Utah, U.S.A. 4110 Canadian Agent: Fairchild Exports Inc. P.O. Box 1184 Beckley, West Virginia	Model DLE-1 Load-A-Tram Hauler	407	Sept. 9, 1981
Elram International Actuators Ltd. Leeds, England Canadian Agent: Mondel Engineering Ltd. Toronto, Ontario	T3/1/A, T1/A and T2/A Elram Electro-Hydraulic Thrusters	425	Jan. 7, 1982
Engart Fans Ltd. Industrial Estate, Aberdare Mid-Glamorgan, U.K. CF44 9YA Canadian Agent: Peacock Inc. 1158 Aerowood Drive Mississauga, Ontario L4W 1Y5	Flameproof, Electrically Driven MRDE Dust Extractors, Types "Mini" 24, 30, 67, and 82	538	Oct. 11, 1983
	"Engart" Type 67 Flameproof Electric Mine Fan and Modified Type MRDE Dust Filtration Unit	326	Oct. 16, 1978
	Flameproof Electrically Drive Bifurcated Mine Ventilation Fan Type 24A 15-SCV, Rated at 15 kW, 1100 V max., 60 HE	537	Oct. 11, 1983
	Engart 42" B60SCV/50HR Bifurcated Fan	411-01	Jan. 8, 1982
	Engart 30 Bifurcated Exhaust Fan	411	June 29, 1981
	Flameproof Electric Mine Fan "Engart" Type 870/F	326-01	July 8, 1980

Holder of Certificate	Description	Certificate No	Effective Date
English Drilling Equipment Co. Lindley Moor Road Yorkshire, England HD3 3RW	Flameproof Hydraulic Power Pack Rated at 30 HP and 1200 RPM	405	June 10, 1981
	Flameproof Underground Drilling Machine	316	Nov. 25, 1977
Etatech Industries Inc. P.O. Box 370 Brantford, Ontario N3T 5N3	A Range of Electric Motors Types N, CF, or CFR Frame sizes from 143 to 447 TEFC, TEAO, and TENV 0.25 HP to 250 HP, Voltage to 600 VAC, 3 Phase, 50/60 Hz	566	May 3, 1984
Flygt Canada Ltd. 300 Labrosse Ave Pointe Claire, Quebec H9R 4V5	Submersible Pumps Type DS 3080 Rated at 1100 Volts AC max.	504	Apr. 8, 1983
Flygt Pumps Ltd. Colwick, Nottingham, England NG4 2AN	Flameproof Electrical Submersible Pump, Type BS2041.360.010, Rated at 575 VAC, 3 Phase, 1.7 kW max.	576	Sept. 24, 1984
Canadian Agent: Flygt Canada Ltd. 300 Labrosse Ave Pointe Claire, Quebec H9R 4V5	Model B-2075 Submersible Pumped Rated at 1100 V	416	Oct. 26, 1981
Flygt Sweden Salna, Sweden	B2400 420 Submersible Pump	433	Apr. 5, 1982
	Submersible Electric Pump Type B-2201.430, Rated at 600 VAC, 47.5 kW, 60 Hz	485	Jan. 18, 1983
Canadian Agent: Beaver Construction Group 1800 Hymus Boulevard Dorval, Quebec H9P 2N6	Submersible Pump Type B2400 420, Rated at 600 VAC, 104 kW, 60 Hz	484	Jan. 18, 1983

CATEGORY 2 - FLAMEPROOF ELECTRICAL EQUIPMENT (Cont'd)

Holder of Certificate	Description	Certificate No	Effective Date
Gebr. Eickhoff M.B.H. Portfach 100629 D-4630 BOCHUM 4630 Bochum 1 West Germany Canadian Agent: Eickhoff America Corp. 200 Park West Drive P.O. Box 2000 Pittsburgh, Pennsylvania 15230 (USA)	Flameproof Electrical Longwall Shearer, Model EDW-150-2L, Rated at 975 VAC, 60 Hz, 300 kW (Nominal)	575	Sept. 18, 1984
GEC High Voltage Switchgear Ltd. P.O. Box 132 Manchester, England M60 1AF Canadian Agent: GEC Canada Ltd. 512 Timberlea Blvd. Mississauga, Ontario L4W 2S5	MIVAC Switchgear Vacuum Circuit Breaker	305	July 19, 1977
	MIVAC Transformer Mounted Circuit Breaker Type 7.2T2 and Mivac Switchboard Cot Breaker Type 7.2Sw .	305-01	June 25, 1982
	MIVAC Type 3.6 S1 Switchboard Vacuum Circuit Breaker and MIVAC 3.6 T1 Transformer Mounted Vacuum Circuit Breaker	615	May 28, 1985
General Energy Development Corp. 661 Highland Ave. Needham Heights, Mass. 02194	Flameproof Electrical Electronic Photo-flash Unit with Intrinsically Safe Synchro Connection Model GBS 5600	560	March 12, 1984
Buffalo Forge Company Arr. Handling Division Buffalo, New York 14240 USA	Centrifugal Ventilation Fans, "Baby Vent", Direct Coupled, 900 CFM max., 1/2 HP, max. (cert. does not include motor)	647	Jan. 7, 1986

CATEGORY 2 - FLAMEPROOF ELECTRICAL EQUIPMENT (Cont'd)

Holder of Certificate	Description	Certificate No	Effective Date
Canadian Agent: Harrison Saturn Joint Venture Eighth Floor 10130-103 Street Edmonton, Alberta T5J 3N9			
Huwood Electric Ltd. Formerly: Babcock Huwood Electric Ltd. Shelly Road Newburn Industrial Estate Newburn, Newcastle upon Tyne N315 9RT England	Flameproof Electrical Lighting Transformer Unit Type "K", Rated at 1100 VAC Input, 2.5 KVA	571	June 29, 1984
Canadian Agent: Minelec Ltd. 2010 Dunwin Drive Mississauga, Ontario L5L 1J5	Electrical Plugs and Sockets, Coupler Type K200C, Plugs Type KD, KDX, KG, KGX, OP and LG, Sockets Type KB, KS, KSX, Treated at 1100 V and Less	381	Dec. 8, 1980
	Power Supplies Type PS, Flameproof Enclosure, 240 VAC Input max., Intrinsically Safe Outputs of 7.5 VDC, 12 VDC, 18 VDC or 15 VAC	652	Jan. 16, 1980

CATEGORY 2 - FLAMEPROOF ELECTRICAL EQUIPMENT (Cont'd)

Holder of Certificate	Description	Certificate No	Effective Date
Ingersoll-Rand Company Mining Machinery Group 4201 Lee Highway Bristol, Virginia 24201	Model 601 through 605 and Model 610 through 615 Battery Scoop, Type Versatrac	449-01	April 1, 1985
	Continuous Mining Machines Model LN800-2V	450	April 20, 1983
	Flameproof Electric Roof Bolter Model TD1-43-6E/EE	295-02	Dec. 8, 1980
	Roof Bolter TD1-36-1-10E/10EE	295	Jan. 28, 1977
J.H. Fletcher and Company P.O. Box 2143 Huntington, West Virginia 25722	Roof Drilling Machine Model DM-13/15, C-2/10	448	July 27, 1982
John Davis & Son (Derby) Ltd. Formerly: Mexco International Ltd. Sutton-In-Ashfield, England	A2 and A3 Headlights and Ashfield Generator Type L Vehicle Lighting System	443	June 10, 1982
John Davis & Son (Derby) Ltd. Alfreton Road Derby, U.K. DE2 4AB Canadian Agent: Minelec Ltd. 2610 Dunwin Drive Mississauga, Ontario L5L 1J5	Type 200 V Two-Wire Signalling System	644	Jan. 3, 1986
	Transformer Units Type 24706; Relay Transformer Units Type 24708; Relay Units Types 24710 and 24711	643	Jan. 3, 1986

CATEGORY 2 - FLAMEPROOF ELECTRICAL EQUIPMENT (Cont'd)

Holder of Certificate	Description	Certificate No	Effective Date
John Davis & Son (Derby) Ltd. Alfreton Road Derby, U.K. DE2 4AB Canadian Agent: Minelec Ltd. 2610 Dunwin Drive Mississauga, Ontario	Roadway Pre-Start Warning System Type 26200	645	Jan. 6, 1986
	Conveyor Control and Communication System with Flameproof Control Box Consisting of "Sivad" MKII Control and "Underdome" Signalling Bells	375	Dec. 3, 1980
	Lighting and Power Transformer, Type 25025, Rated at 2.5 KVA, 1100 VAC max., Input, May have up to 4 FLP Outputs and 4 IS Outputs (Internal IS Supp.)	641	Dec. 11, 1985
Joy Manufacturing Co. (U.S.) 325 Buffalo Street Franklin, Penn. 16323	Flameproof Electric Continuous Mining Machines Models 12CM10 and 12CM11, 1100V or less 60 cycle, 3ph, 50 HP or less	367	July 15, 1980
	Flameproof Electric Shuttle Cars Model 10SC22	333-01	May 1, 1980
	Flameproof Electric Shuttle Cars Model 10SC22	333	Oct. 16, 1978
Sykes Pumps Ltd. (U.K.) Tufthorn Avenue Coleford Glos G116 8PS England Canadian Agent: Linden-Alimak Ltd. 3070 Lenworth Drive Mississauga, Ontario L4X 2G1	Velovac Pumpset Model VC3E, Rated at 50 HP, 575 V, 3 Phase, 60 Hz	436	June 24, 1982

CATEGORY 2 - FLAMEPROOF ELECTRICAL EQUIPMENT (Cont'd)

Holder of Certificate	Description	Certificate No	Effective Date
Long-Airdox Co. P.O. Box 331 Oak Hill, West Virginia 25901	Flameproof Electric Coal Haulage System	351	Nov. 1, 1979
	Feeder-Breakers Types SFBH-40 and 4MFBH-56A, Rated to 1100 V	469	Oct. 28, 1982
Lovat Tunnel Equipment 441 Carlingview Drive Rexdale, Ontario M9W 5G7	7.6 Meter Diameter Tunnel Boring Machine	515	June 15, 1983
Machenoexport Moscow V.330 Mosfilmovskja UL-35	Road Heading Machine, Model PK-9	319	Feb. 13, 1978
Canadian Agent: Cape Breton Development Corp. P.O. Box 2500 Sydney, Nova Scotia B1P 6K9			
Mine Safety Appliances Co. Mars-Evans City Rd Evans City P.A.	Flameproof Electric Rock Dusters "Trickle Duster" and "Bantam 400"	345	Jan. 28, 1980
Canadian Agent: MSA Canada Ltd. 148 Norfinch Drive North York, Ontario M3N 1X8			
Minelec Ltd. 2610 Dunwin Drive Mississauga, Ontario L5L 1J5	Flameproof Electrical Cable Couplers and Adaptors Type WE76/300C, WE76/300A, WE76/300CF and WE76/300AF	577	Oct. 11, 1984

CATEGORY 2 - FLAMEPROOF ELECTRICAL EQUIPMENT (Cont'd)

Holder of Certificate	Description	Certificate No	Effective Date
Mitsui Miike Machinery Co. Ltd. Mitsui Building Ninonbashi-Muromachi, Chuo-Ku Tokyo, Japan Canadian Agent: Long-Airdox Co. P.O. Box 331 Oak Hill, West Virginia 25901	Road Heading Machine Type MRH-S125-23, Rated at 1100 V, 60 Hz max.	501	March 21, 1983
	Type MRH-S50-14M Road Header and Type MFL-XX-14M Face Loader	301	May, 19, 1977
	Flameproof Electric Induction Motor Type MCE 471, Rated at 1100 V, 3 Phase, 50/60 Hz, 130-240 A(AC)	539	Oct. 12, 1983
	Flameproof Electrical Remote Control Chamber Type MRB5265-X1	540	Oct. 13, 1983
Morley Electrical Engineering Co. Ltd. Stanningley, Pudsey Yorkshire, England LS28 6QA	A Range of Electric Motors Types BM, CM, EM, PBM, PCM, PDM, E160, E180 and E225	499	March 3, 1983
NEI Mining Equipment (Canada) Ltd. P.O. Box 967 Sydney, Nova Scotia B1P 6J4	Flameproof Electrical Vacuum Contactor Starters Types HFVG, HF2VG and HFGT, Rated at 2400 HP or Less, 3 Phase, 50-60 Hz, 7.2 kV	310-01	April 13, 1983
NEI Peebles Ltd. East Pilton Edinburgh, Scotland EH5 2XT	Flameproof Dry Type Mining Transformers Types FPA 500/2A, Mark II, FPA 750/2A and FPA 1000/1A	315-01	Feb. 5, 1982
	Flameproof Dry Type Mining Transformers Types FPA 500/2A, Mark II, FPA750/2A and FPA 1000/1A	315	Nov. 9, 1977
	Electric Motors Frame Sizes BS9850, 9855, 9865, 9875, 9885, 9890 and 9895, Rated to 150 kW, 1100 V	334-01	April 4, 1985

CATEGORY 2 - FLAMEPROOF ELECTRICAL EQUIPMENT (Cont'd)

Holder of Certificate	Description	Certificate No	Effective Date
NEI Baldwin and Francis Ltd. Eyre Street Sheffield, England S1 3GP Canadian Agent: NEI Mining Equipment (Canada) Ltd. P.O. Box 967 Sydney, Nova Scotia B1P 6J4	Flameproof Lighting Transformer Type LU 1100 Flameproof Electrical Gate and Boxes Type M11A, SCB1 and FT2X	435	April 20, 1982
NEI Reyrolle Belmos Ltd. Industrial Estate Blantyre Glasgow, Scotland G72 OUU	Flameproof Gate and Boxes Types KFG, KF2G, KFVG, KF2VG and KFGT	311	Oct. 7, 1977
NEI Electronics Ltd. Kingsway Team Valley Gateshead Tyne and Wear Canadian Agent: NEI Mining Equipment (Canada) Ltd. P.O. Box 967 Sydney, Nova Scotia B1P 6J4	Syncrostart Unit Type Syncro 1, Rated to 150 HP, 1100 AC max., 3 Phase, 60 Hz	614	May 14, 1985
Ocenco Inc. P.O. Box 8 101 Industrial Park Blairsville, Penn. 15717	Flameproof Headlamp Model No. HE-100X	336	June 21, 1979

CATEGORY 2 - FLAMEPROOF ELECTRICAL EQUIPMENT (Cont'd)

Holder of Certificate	Description	Certificate No	Effective Date
NEI Peebles Ltd. Broxburn, West Lowthian, Scotland EH52 5AP Canadian Agent: Reyrolle Parsons of Canada Ltd. 78 Queen Elizabeth Blvd Toronto, Ontario M8Z 1M3	Flameproof Electric Motors Frame BS9860 and Frame BS14580	334	Oct. 19, 1978
Reliance Electric Co. Ltd. Motor Division Cleveland, Ohio 44117 USA Canadian Agent: Alphair Ventilating Systems Inc. 118 Midland Street Winnipeg, Manitoba R3E 2Y6	Motor, Frame EC449TCZ, TEAO, Complete with Conduit Box and Conduit Box Extension	634	Nov. 15, 1985
Schaffler and Company Vienna, Austria Canadian Agent: C-I-L Inc. P.O. Box 200 Station "A" North York, Ontario M2N 6H2	Blasting Machine Type 844T	492	June 14, 1983

CATEGORY 2 - FLAMEPROOF ELECTRICAL EQUIPMENT (Cont'd)

Holder of Certificate	Description	Certificate No	Effective Date
Shaw Almex Industries Ltd. P.O. Box 430 Parry Sound, Ontario P2A 2X4	Type FKD Conveyor Belt Vulcanizing Press	659	Jan. 24, 1986
Simplex Electrical Ltd. Formerly: Wallacetown Engineering Co. Ltd.	Type E68, E68/1, E68/2 Reversing Contractors Rated to 1100 VAC, 150 Amps max.	621	Aug. 7, 1985
Simplex Electrical Ltd. Heathfield Road Ayr, Ayrshire, KA8 9SR UK Canadian Agent: Minelec Ltd. 2610 Dunwin Drive Mississauga, Ontario L5L 1J5	Flameproof Electrical Gate End Box, Type P70/150 Rated to 600 VAC, 60 Hz, 3 Phase	579	Oct. 29, 1984
Simplex Electrical Ltd. Formerly: Wallacetown Engineering Co. Ltd. Canadian Agent: Minelec Ltd. 2610 Dunwin Drive Mississauga, Ontario L5L 1J5	Flameproof Electrical Gate End Box, Type P59, and Reversing Starter, Type P59C, Rated to 600 VAC, 60 Hz, 3 Phase	578	Oct. 29, 1984
	Gate End Box Type A67, 1100 Volt, 50/60 Hz, 300 Amp or Less	457	Sept. 3, 1982
	Flameproof Electric Conveyor Control Type A69, 1100 V, 3 Phase, 50/60 Hz, 150 A or Less	463	Sept. 20, 1982
	Remote Control Unit Types A56, A56S, A56K	465	Sept. 23, 1982

Holder of Certificate	Description	Certificate No	Effective Date
Stedfast Electrical Controls Ltd. 33 Watnall Road Hucknall, Nottingham, U.K. NG15 7LD	Relay Control Systems, Types RCS1A, RCS1B, RCS2A, RCS2B, RCS2C and RCS2D	648	Jan. 8, 1986
	Communication/Control Systems Types SR2, SR2/I and SR2/I/T	650	Jan. 13, 1986
Sullivan Machinery Co. River Road Claremont, New Hampshire, U.S.A. 03743 Canadian Agent: Sullivan Sales (U.S.A.) Inc. 1680 Courtney Park Drive Unit No. 6 Mississauga, Ontario L5T 1R4	Model FF-211 Slusher Hoist, Double Drum, Electrically Powered, 15 HP, 575 VAC, 3 Phase	635	Nov. 15, 1985
Thomas & Betts Corp. (U.S.) 920 Route 202 Raritan, New Jersey, U.S.A. 700 Thomas Street 908869 Canadian Agent: Thomas & Betts Ltd. (Canada) P.O. Box 30 Iberville, Quebec J2X 2M	Spin-On-Series III and Series IV Cable Glands for Armoured Cable, Including TECK, With or Without PVC Jacket, Trade Sizes 3/4" to 4" Inclusive	624	Aug. 14, 1985

CATEGORY 2 - FLAMEPROOF ELECTRICAL EQUIPMENT (Cont'd)

Holder of Certificate	Description	Certificate No	Effective Date
Tri-Metal Fans A Division of Tri-Metal Fabricators Ltd. 8075 Alexander Road Delta, B.C. V4G 1C6	Flameproof Electrical Range of Axial and Belt Driven Fans, 10" to 60" Diameter Inclusive to be Used With EMR Certified Motors	587	Nov. 26, 1984
Victor Products (Wallsend) Ltd. P.O. Box Wallsend Tyne and Wear England NE28 6PP	Victor "Minotaur" Hydraulic Drill	419	March 18, 1982
	"Neptune" Restrained Plugs Types 15 PR, 20 PR, 15 SR, 15 SR/A and 15 SR/B	444	Nov. 4, 1982
Canadian Agent: Tenace Corp. 897 Kipling Ave. Toronto, Ontario M8Z 5H3	Flameproof Fluorescent Luminaire Type 20 L	308	Oct. 12, 1977
Voest-Alpine International Corp. 120 Ferry Ave. Collingswood, New Jersey, U.S.A. 08104	Flameproof Tunnelling Machine Alpine Miner Type AM75, Rated up to 1100 Volts, 60 Hz	528	Aug. 18, 1983
	Road Heading Machine "Alpine Miner" Model AM100	415	Oct. 23, 1981
	Flameproof Electric Tunnelling Machine "Alpine Miner" Model F6A	348-01	Oct. 18, 1979
	Flameproof Electric Tunnelling Machine "Alpine Miner" Model AM50	348	Oct. 18, 1979

CATEGORY 2 - FLAMEPROOF ELECTRICAL EQUIPMENT (Cont'd)

Holder of Certificate	Description	Certificate No	Effective Date
W.R. Stamler Corp. Millersburg, Kentucky, U.S.A. 40348	Feeder - Breaker Model BF 14	458	July 13, 1983
Westinghouse Canada Ltd. Box 510 Hamilton, Ontario L8N 3K2	Flameproof Electric Motor Frames 684, 686 and 688, Rated at 6900V, 3 Phase, 60 Hz, 600 HP or Less	359	June 3, 1980
	Flameproof Electric Mining Motors Type HSB "Air-Over" Fan Motors Frame 215 and 256	147-31	March 19, 1979
	Type HSB AC 3 Phase 60 Cycle Motors Frame 182T to 445T	147-28	July 4, 1977
	Type HSB Frame 182T to 447T With Provision for Trailing Cable Connection	147-27	Nov. 28, 1977
	Type HSB AC 3 Phase 60 Cycle Motors Frame 182 to 449 Equipped With Flameproof Plug and Socket Connection	147-28	Nov. 28, 1977
	Type HSB AC Induction Motors Equipped With "Victor" Plug and Socket Assemblies	147-27	Jan. 11, 1977
	Type HSB Frame 447T to 447TY Motors Alterations to type HSB frame 182 to 449 to include trailing cable entry gland and junction box	147-26	Feb. 1, 1977
	A Series of 3 Phase, 575 V, 60 Cycles, Induction Motors, Built on 182 to 449 Frames	147	Feb. 21, 1969

CATEGORY 2 - FLAMEPROOF ELECTRICAL EQUIPMENT (Cont'd)

Holder of Certificate	Description	Certificate No	Effective Date
Woods of Colchester Ltd. Formerly: Keith Blackman Ltd. Tufnell Way Colchester, U.K. CO4 5AR Canadian Agent: Woods Fans Ltd. 5112 Timberlea Blvd. Mississauga, Ontario L4W 2S5	A Range of Mine Fans Types ILR610, ILR760, ILR900, Rated at 1100 V max.	451	March 21, 1983

CATEGORY 3 - INTRINSICALLY SAFE ELECTRICAL EQUIPMENT

Holder of Certificate	Description	Certificate No	Effective Date
A.P. Besson Ltd. St. Joseph's Close Hove, Sussex, England BN3-7EZ Canadian Agent: Thermo Electric (Canada) Ltd. 12 Rutherford Road South Brampton, Ontario L6W 3J2	"Banshee" Audible Warning Device	627	Sept. 12, 1985
A.T.S. Electro-Lube Ltd. 11-7550 River Road Tilbury Industrial Park Delta, B.C. V4G 1C8	Electrolube Automatic Lubrication Dispenser	600	Feb. 27, 1985
AGA Geotronics AB (Lidingo, Sweden) Canadian Agent: AGA Geodimeter of Canada Ltd. 41 Horner Ave. Unit 5 Toronto, Ontario M8Z 4X4	AGA Geodimeters Models 116, 120 and 122	417	Oct. 26, 1981
Beckman Instruments Inc. Fullerton, Cal. USA 92634 Canadian Agent: Cape Breton Development Corp.	Beckman Model HD100 Multimeter, as Modified by Devco	601	March 19, 1985

CATEGORY 3 - INTRINSICALLY SAFE ELECTRICAL EQUIPMENT (Cont'd)

Holder of Certificate	Description	Certificate No	Effective Date
C-I-L Inc. P.O. Box 200 Station "A" North York, Ontario M2N 6H2	Circuit Tester, as Described in Information Report No. 118A	597	Feb. 6, 1985
	Blasting Galvanometer Model 2	461	Jan. 28, 1983
Technology Ltd. Technology House Mill Road Cromford, New Matlok Denbyshire, UK	Tinylog Pressure Recorder Type TLI-47X	660	Jan. 30, 1986
	Tinylog Voltage Data Logger Type TLI-002X	660-01	Jan. 30, 1986
Canadian Agent: Cape Breton, Coal Research Lab 210 George Street Sydney, Nova Scotia B1P 1J3			
Cape Breton Development Corp. (MacVicar) P.O. Box 2500 Sydney, Nova Scotia B1P 6K9	Intrinsically Safe Wallface Power Monitoring Display	574	Aug. 31, 1984
	Battery Power Supply, Rechargeable, 24 VDC, Type 1516	630	Sept. 18, 1985
	Battery Power Pack, Rechargeable, 5 VDC, Type 1520, for Portable Test Meters	631	Sept. 18, 1985
	1371 24 VDC Power Supply	420	Nov. 17, 1981
Conspec Controls Inc. 44 Martin Ross Ave. Downsview, Ontario M3J 2K8	Mine Monitoring System "Senturion 200"	474	Nov. 30, 1982

CATEGORY 3 - INTRINSICALLY SAFE ELECTRICAL EQUIPMENT (Cont'd)

Holder of Certificate	Description	Certificate No	Effective Date
Derby Automation Consultants Ltd. Burton-On-Trent, U.K.	Intrinsically Safe Telephone System Types ST/1 and ST/1/IU MK II	372-03	July 30, 1980
Canadian Agent: NEI Mining Equipment (Canada) Ltd. P.O. Box 967 Sydney, Nova Scotia B1P 6J4	PSA4 Pre-Start Warning, Signalling, Lockout and Speech Communication System	656	Jan. 22, 1986
	PSA5 Pre-Start Warning, Signalling, Lockout and Speech Communication System	657	Jan. 22, 1986
	CS4 Pre-Start Warning, Signalling, Lockout, Speech Control and Communication System	658	Jan. 23, 1986
Derby Automation Consultants Ltd. Burton-On-Trent, U.K.	Radio Signalling System Type RSS	481	Dec. 21, 1982
Canadian Agent: Tenace Corp. 897 Kipling Ave. Toronto, Ontario M8Z 5H3	Intrinsically Safe Signalling and Indication System Type LOIS 2 With BMA Power Supply	372-01	July 30, 1980
Dragerwerk 24 Lubeck Street P.O. Box 1339 West Germany Canadian Agent: Safety Supply Canada Ltd. 797 Lorne Street Sudbury, Ontario P3C 4R5	Intrinsically Safe Sound Powered Mine Rescue Communication System	564	Mar. 26, 1984

CATEGORY 3 - INTRINSICALLY SAFE ELECTRICAL EQUIPMENT (Cont'd)

Holder of Certificate	Description	Certificate No	Effective Date
E.I. Du Pont De Nemours & Co. Applied Technology Centre North Walnut Road P.O. Box 10 Kennett Square, Penn., U.S.A. 19348	Portable Air Sampling Pump Type P2500A	497	Feb. 9, 1983
Endress & Hauser GMBH & Co. Maulburg, West Germany Canadian Agent: Untertage Maschinenfabrik 6602 Dudweiller/Saar Postfach, West Germany 1380	Gammapilot Level Limit Switch Type FTG 380Z and FTG 480Z	606	Apr. 22, 1985
Foundrometers Ltd. South Accomodation Road Leeds, U.K. LS9 8LW	Tachometer System Mk II, alternator driven suitable for connection to five max. indicating meters	649	Jan. 9, 1986
GEC High Voltage Switchgear Ltd. P.O. Box 132 Manchester, England M60 1AF	Remote Control System Type I.S.C. 2 Rated at 15 VAC for Use With Mivac Switchgear	616	May 28, 1985
Gilian Instrument Corp. Canadian Agent: Levitt-Safety Ltd. 33 Laird Drive Toronto, Ontario M4G 3S9	Model HFS 113A Portable Air Sampling Pump	638	Nov. 29, 1985
Gullick Dobson Ltd. P.O. Box 12 Wigan, Lancashire WN1-3DD U.K.	Roof Support Control System Type 360101F, Including Kratos Instem Ltd. Lockout System	601	Feb. 12, 1986

CATEGORY 3 - INTRINSICALLY SAFE ELECTRICAL EQUIPMENT (Cont'd)

Holder of Certificate	Description	Certificate No	Effective Date
Harrison R. Cooper Systems Inc. AMF Box 22014 Salt Lake City, Utah, U.S.A. 84122	"Rope-O-Com" and "Tunnel-Com" Wireless Mine Communication Transceiver Systems, Battery Powered (12 VDC)	632	Oct. 31, 1985
Hawker Siddeley Dynamics Ltd. Mining and Power Systems Division Bridge Road East Welwyn Garden City Hertfordshire AL7 1LR England	Pulsed Radar System Type PRS 100 Data Transmission System "Dynalink MK II"	478 370	Dec. 8, 1982 July 29, 1980
Heuer-Leonidas SA Biel, Bienna, Switerland Canadian Agent: Cape Breton Coal Research Lab 210 George Street Sydney, Nova Scotia B1P 1J3	Heuer Microsplit 1000 Stopwatch (Digital)	605	Apr. 22, 1985
Hughes Aircraft Co. Carlsbad, California Canadian Agent: Infrascan Sales Ltd. 305 East Sixth Ave. Vancouver, B.C. V5T 1J9	Probeye Infrared Viewer Model 649	318	Dec. 28, 1977
Huwood Electric Ltd. Shelley Road Neuburn Industrial Estate, Neuburn, Newcastle Upon Tyne, NE15 9RT Formerly: Babcock Huwood Electric Ltd.	Intrinsically Safe Display Sign, Type OIL Sentrie Monitoring and Control System Methane Drainage Monitoring System Type MM	573 651 612	July 24, 1984 Jan. 15, 1986 May 13, 1985

CATEGORY 3 - INTRINSICALLY SAFE ELECTRICAL EQUIPMENT (Cont'd)

Holder of Certificate	Description	Certificate No	Effective Date
Canadian Agent: Foulis Engineering Sales Ltd. P.O. Box 998 Sydney, Nova Scotia B1P 3M6	Methane Trip Unit Type MTL	613	May 13, 1985
	Intrinsically Safe Over-Temperature Monitor Type D1601	488	Jan. 24, 1983
	Temperature Monitoring Unit Type D164	611	May 9, 1985
	Power Supply Module Type 18DC, 240 VAC max. input, 18 VDC IS output	653	Jan. 16, 1986
	Power Supply Module Type 12DC, 240 VAC max. input, 12 VDC IS output	654	Jan. 17, 1986
	Power Supply Module Type 7.5DC, 240 VAC max. input, 7.5 VDC IS output	655	Jan. 17, 1986
	Power Supply Type IB-DC	610	May 9, 1985
J-Tec Associates Inc. 317 7th Ave. SE Cedar Rapids, IA, U.S.A. 52401	VP 100 Handheld Anemometer	409	June 25, 1981
	Methane Monitoring Units Intended for Connection to Data Acquisition Systems Type VM101B	476	Dec. 7, 1982
	Monitoring System and Power Supply	396	Mar. 31, 1981
	DCU-100 Monitor With Intrinsically Safe Output	378	Dec. 3, 1980
	Airflow Sensor VA-216 for Use With Certified Power Supply and Monitor	374	Dec. 3, 1980
	PS-201 Power Supply With Intrinsically Safe Output Circuit	379	Dec. 3, 1980

CATEGORY 3 - INTRINSICALLY SAFE ELECTRICAL EQUIPMENT (Cont'd)

Holder of Certificate	Description	Certificate No	Effective Date
John Davis & Son (Derby) Ltd. Alfreton Road Derby, U.K. DE2 4AB Canadian Agent: Minelec Ltd. 2610 Dunwin Drive Mississauga, Ontario L5L 1J5	Flameproof Monitoring System FMS 1 Type 25000	509	May 16, 1983
	Type DIS 4 Communication System	636	Nov. 20, 1985
	Voltage and Power Recording System Type MRD57400	550	Jan. 6, 1984
	Speed and Slip Monitor, Type 24800	646	Jan. 6, 1986
	Type 26500 Signalling Bell, 16.5 VAC max.	640	Dec. 10, 1985
Kurz Instruments Inc. P.O. Box 849 20 Village Square Carmel Valley, California 93924 USA Canadian Agent: Cape Breton Coal Research Lab 210 George Street Sydney, Nova Scotia B1P 1J3	Battery Powered Portable Pocket Flow Calibrator	583	Nov. 19, 1984
Levitt-Safety Ltd. 33 Laird Drive Toronto, Ontario M4G 3S9	Northern Light Miner's Cap Lamp	593	Jan. 14, 1985

CATEGORY 3 - INTRINSICALLY SAFE ELECTRICAL EQUIPMENT (Cont'd)

Holder of Certificate	Description	Certificate No	Effective Date
Measurement Technology Ltd. Luton, Bedfordshire, England LU1 3JJ Canadian Agent: Westhead Associates 282 Belfield Road Rexdale, Ontario M9W 1H5	Intrinsically Safe Barriers and Interface Units	531	Aug. 29, 1983
Mine Safety Appliances Co. Mars-Evans City Rd.; Evans City, PA	MSA Multiphone Mine Communication System	494	Jan. 18, 1983
	Fixt-Flo Pump, Model 1	498	Feb. 10, 1983
Canadian Agent: MSA Canada Inc. 148 Norfinch Drive North York, Ontario M3N 1X8	Model G Gravimetric Pump and Model S Monitaire Pump	471	Oct. 10, 1982
	Powered Air Purifying Respirators Part Nos. 205689, 204688 and 463355	328	July 12, 1978
MSA Canada Ltd. 148 Norfinch Drive North York, Ontario M3N 1X8	Pager III Telephone	346	July 25, 1979
NEI Mining Equipment Ltd. P.O. Box 967 Sydney, Nova Scotia B1P 6J4	Intrinsically Safe Fibre Optic Interface Barrier Type NB6	534	Sept. 29, 1983
	Intrinsically Safe Monitoring and Control System Type NCM1	535	Oct. 7, 1983

CATEGORY 3 - INTRINSICALLY SAFE ELECTRICAL EQUIPMENT (Cont'd)

Holder of Certificate	Description	Certificate No	Effective Date
Omnidata International Logan, Utah USA Canadian Agents: EMR and Calgary Coal Research Lab	Intrinsically Safe Data Recording Instrument Polycorder Model 516-32	557	Mar. 1, 1984
Peltor Ltd. Varnamo, Sweden Canadian Agent: Norhammer Tools Co. Ltd. Box 2042 Gravenhurst, Ontario P0C 1G0	Intrinsically Safe Headset Intercom Systems for Use in High Ambient Noise Environments	565	Apr. 19, 1984
Racal Airstream Inc. Rockville, Maryland U.S.A. Canadian Agent: Safety Supply Canada Ltd. 90 West Beaver Creek Road Richmond Hill, Ontario L4B 1E7	Model AH-21 With AS3-15 Battery Pack	427	Jan. 28, 1982
Cape Breton Coal Research Lab 210 Geroge Street Sydney, Nova Scotia B1P 1J3	Intrinsically Safe Pocket Clock/Stop-watch/Calculator, Radio Shack Model EC-307	568	May 10, 1984
Rapco Electronics Ltd. Basingstoke, Hants, England Canadian Agent: Minelec Ltd. 2610 Dunwin Drive Mississauga, Ontario L5L 1J5	Intrinsically Safe Portable Chart Recording System Type 77100 Employing Type 77110 Model PCR 1 Chart Recorder	551	Jan. 23, 1984

CATEGORY 3 - INTRINSICALLY SAFE ELECTRICAL EQUIPMENT (Cont'd)

Holder of Certificate	Description	Certificate No	Effective Date
Safety Technology Ltd. Gresham House Twickenham Road Feltham, Middlesex, U.K. Canadian Agent: Thermo Electric (Canada) Ltd. 12 Rutherford Road South Brampton, Ontario L6W 3J2	"Visilarm" Visual Warning Device	628	Sept. 12, 1985
Sensidyne Inc. Suite E 12345 Starkey Road Largo, Florida, U.S.A. 33543	Intrinsically Safe Air Sampling Pumps Model BDX-44 and BDX-60, Portable, Battery Powered	544	Nov. 23, 1983
	Intrinsically Safe Air Sampling Pumps Model BDX-55 and BDX-56, Portable, Battery Powered	544-01	June 6, 1984

CATEGORY 3 - INTRINSICALLY SAFE ELECTRICAL EQUIPMENT (Cont'd)

Holder of Certificate	Description	Certificate No	Effective Date
Sieger Ltd. Poole, Dorset, England Canadian Agent: Minelec Ltd. 2610 Dunwin Drive Mississauga, Ontario L5L 1J5	BM1 Methane Monitoring System	431	Mar. 11, 1982
	BM1 Methane Monitoring System	402	May 27, 1981
	Air Velocity Monitor Model BA2 and Battery Power Supplies Model Bat-1 and Bat-2	380	Dec. 8, 1980
Transmitton Ltd. Smisby Road Ashby-de-la-Zouch, Leicestershire LE6 5UG	Intrinsically Safe Data Transmission System Type TM200	317-01	June 29, 1979
	Intrinsically Safe Data Transmission System Type 101	317	Dec. 13, 1977
Trolex Products Ltd. Newby Road Hazel Grove Stockport, Cheshire SK7 5DY	Intrinsically Safe Dead Line Indicator Type P3650	511	May 30, 1983
	Intrinsically Safe Temperature Monitoring System Type TX20	512	May 30, 1983
	Monitoring Equipment Type TC10, TC10P and TX280 Thermostats Type TX140 Air Flow Switch, and Type P3270 Smoke Detector for Use With P3681 Power Sup	371	Dec. 1, 1980
Cape Breton Coal Research Lab 210 George Street Sydney, Nova Scotia B1P 1J3	Ultrasonic Closure Rate Instrument	592	Jan. 3, 1985

CATEGORY 3 - INTRINSICALLY SAFE ELECTRICAL EQUIPMENT (Cont'd)

Holder of Certificate	Description	Certificate No	Effective Date
Vickers Instruments P.O. Box 99 Malden, MA, U.S.A. 02148 Canadian Agent: Vickers Instruments Inc.	Mark II Helium-Neon Laser Unit	483	Jan. 10, 1983
Wild Leitz Canada Ltd. 513 McNicoll Ave. Willodale, Ontario M2H 2C9	Electronic Distance Measuring Equipment Distomat Type D14, D14L Including Keyboard and Battery Packs	456	Oct. 29, 1982

CATEGORY 4 - FIRE-RESISTANT AND ANTI-STATIC CONVEYOR BELTING

Holder of Certificate	Description	Certificate No	Effective Date
Bando Chemical Industries Ltd. 1, 2-Chrome, Meiwa-Dori, Hyogo-Ku Kobe, Japan 652	Bando Fire Resistant Type FR-100 Steel Cord Conveyor Belting	142-01	Aug. 15, 1977
	Bando Fire Resistant No. 300 Steel Cord Conveyor Belt	211	Jan. 19, 1972
	Fire Resistant and Anti-Static Conveyor Belting Type ST-2000	211-02	May 9, 1984
	Bando Conveyor Belt Fire Resistant Type No. 300	193	May 19, 1971
Bridgestone Tire and Rubber Co. No. 1, 1-Chrome, Kyobashi Chuo-Ku Tokyo, Japan	Fire-Resistant Bridgestone Belting Type FR "L"	215	Apr. 26, 1972
Canadian Agent: United Tire and Rubber Co. Ltd. 150 Brockport Drive Rexdale, Ontario	Fire-Resistant Bridgestone Belting Type FR "K"	216	Apr. 26, 1972
Dunlop Belting Products Limited P.O. Box 15, Widnes, Chesire, WA8 8PS, England	Vinyplast Fire Resistant Conveyor Belt Types 400S, 500S, 630S, 800S, 900S, 1000S, 1250S, 1400, 1600S, 1750S, 2000S	341	Oct. 5, 1979
Canadian Agent: Dunlop Industrial Ltd. 3 Pullman Court Scarborough, Ontario M1X 1E5	Vinyplast Fire Resistant and Anti Static Conveyor Belts Types 400S, 500S, 630S, 800S, 900S, 1000S, 1250S, 1400S, 1600S, 1750S, 2000S	341-01	Sept. 28, 1979

CATEGORY 4 - FIRE-RESISTANT AND ANTI-STATIC CONVEYOR BELTING (Cont'd)

Holder of Certificate	Description	Certificate No	Effective Date
Georgia Duck and Cordage Mill Scottdale, Georgia, U.S.A. 30079	Poly-Vinylok Conveyor Belting Styles MPVK350, MPVK500, MPVK600, MPVK610, MPVK610, MPVK700, MPVK800, MPVK1000, MPVK 1200, MPVK5000	222-11	Feb. 18, 1980
Goodyear Canada Inc. 45 Raynes Ave. Bowmanville, Ontario L1C 1J3	Goodyear Fire Resistant Belting Plylon 315, 420, 525, 630	252-01	Apr. 8, 1980
	Goodyear Fire Resistant Steel Cable Conveyor	253	Sept. 28, 1973
	Plylon 525	245	Aug. 7, 1973
	"Pylon II" 220, 330, 400, 440, 600, 800 and 1000	439	June 9, 1982
J.H. Fenner and Co. Ltd. Marfleet, Hull England HU9 5RA	"Fenaplast FR and FRSR Ref. Nos. 2240, 2600, 2800, 3300, 3500, 4000, 4500, 5000, 6000, 6500, 8000, 10000 and 12000	292	Dec. 1, 1976
Mitsuboshi Belting Ltd. 4-12m 1 chome Higashi-Nihonbashi Chuo-ku, Tokyo 103, Japan	Range of Belting, Types VN-100 to VN-200	599	Feb. 11, 1985
Scandura Inc. (U.S.) P.O. Box 30606 Charlotte, North Carolina, U.S.A. 28230	Fire Resistant Conveyor Belt Gold Line II, Type 3500 HC	344	Sept. 26, 1979
	Fire Resistant Conveyor Belting Gold Line II	344-01	July 25, 1980
	Fire Resistant Conveyor Belting Gold Line II	344-02	Dec. 5, 1980
	Dualine One Star, Two Star, Three Star and Four Star	594	Jan. 17, 1985

CATEGORY 4 - FIRE-RESISTANT AND ANTI-STATIC CONVEYOR BELTING (Cont'd)

Holder of Certificate	Description	Certificate No	Effective Date
Scandura Ltd. (U.K.) P.O. Box 18 Cleckheaton, West Yorkshire England BD19 3UJ	Fire-Resistant and Anti Static Conveyor Belting "Iceline FRAS 12,000"	510	June 14, 1983
	Gold Line Fire Resistant and Anti Static Conveyor Belting Types FRAS4600, FRAS5000, FRAS6000, FRAS8000, FRAS10000, FRAS12000, FRAS2801, FRAS6500, FRAS15,000	343-03	Sept. 10, 1981
	Fire-Resistant and Anti-Static Conveyor Belting "Gold Line" FRASN 4000, 5000 and 6500	343-05	Aug. 26, 1983*
Scandura Canada Ltd. Formerly: Uniroyal Ltd. Bracebridge, Ontario P0B 1C0	"Matchless Fire Resistant" Types Usflex 30/1 AS, 40/1 AS, 55/1 AS, 75/1 AS, 115/2 AS, 140/2 AS, 175/2 AS	502-03	Nov. 14, 1985
	"Matchless Fire Resistant Oil Resistant" Antistatic Types Usflex 30/1 AS, 40/1 AS, 55/1 AS, 75/1 AS, 115/2 AS, 140/2 AS, 175/2 AS and 220/2 AS	502-04	Nov. 14, 1985
	Fire-Resistant and Anti-Static Conveyor Belting Styles "Royalon" 26/2 AS, 39/3 AS, 36/2 As, 54/3 AS, 72/4 AS, 90/5 AS, 70/2 AS, 105/3 AS, 140/4 AS	502-05	Nov. 14, 1985
TBA Industrial Products P.O. Box 77 Wigan, Lancashire, England WN2 4XQ	"Loadstar", Solid Woven PVC, Type 5	403	June 2, 1981

CATEGORY 4 - FIRE-RESISTANT AND ANTI-STATIC CONVEYOR BELTING (Cont'd)

Holder of Certificate	Description	Certificate No	Effective Date
Yokohama Rubber Co. Ltd. P.O. Box 46 Shiba, Tokyo, Japan Canadian Agent: Yokohama Rubber Co. Ltd. (U.S.) Suite Q 1325 Remington Road Schaumburg, Illinois, U.S.A. 60195	Fire Resistant and Anti-Static Conveyor Belting Types ST-370, ST-2500, ST-3200	553	Feb. 10, 1984
	Fire Resistant and Anti-Static Conveyor Belting Series ST-400, ST-500, ST-600 ... ST-3100, ST-630, ST-1250, ST-3150	553-02	Sept. 7, 1984
	Fire Resistant and Anti-Static Conveyor Belting Type EP-450	553-03	Dec. 3, 1984

CATEGORY 5 - FLAMEPROOF DIESEL EQUIPMENT

Holder of Certificate	Description	Certificate No	Effective Date
Beaver Construction Group 1800 Hymus Boulevard Dorval, Quebec H9P 2N6	Flameproof Diesel Erector-Transporter Powered by a Caterpillar 3304 PCNA Diesel Engine	522	Aug. 11, 1983
Envirotech Corp. 537 West Sixth South Salt Lake City, Utah 84110	Rubber Tired Vehicle Chassis for Mobile Underground Diesel Powered Equipment Timberjack Type M50 or M70	432	Sept. 15, 1982
	Underground Load-Haul-Dump Vehicle	408	July 5, 1980
Eimco Tunnelling & Mining Machinery Division Envirotech Corp 537 West Sixth South Salt Lake City, Utah 84110 Canadian Agent: Harrison Saturn Joint Venture Eighth Floor 10130-103 Street Edmonton, Alberta T5J 3N9	Eimco Model 913 LHD Diesel Machine	280-02	Dec. 9, 1985
Hunslet (Holdings) PLC (Hunslet Engine Works) 125 Jack Lane Leeds, West Yorkshire LS10 1BT	Flameproof Diesel Powered 100HP Railbound Mine Locomotive Powered by One Caterpillar Diesel Engine Model 3304	561	Mar. 28, 1984

CATEGORY 6 - NON-FLAMEPROOF DIESEL EQUIPMENT

Holder of Certificate	Description	Certificate No	Effective Date
Caterpillar Tractor Company 100 N.E. Adams Street Peoria, Illinois, U.S.A. 61629-6480	Flameproof Diesel Engine, Model 3304, Precombustion chamber, naturally aspirated	542	June 5, 1984
Isuzu Diesel of Japan 2210 Minamioi 6 Chome Shinagowa Ku Tokyo - 140 Canadian Agent: Miltor Drilling Equipment Ltd. 1360 Kelley Lake Road Sudbury, Ontario P3E 5P4	Isuzu Model QD60/C240 Diesel Engine, 58 HP max., 4 cyl., prechamber, naturally aspirated	639	Dec. 10, 1985
Toyota Motor Corp. Toyota City Aichi-ken, Japan Canadian Agent: Toyota Canada Inc. 1291 Bellamy Road North Scarborough, Ontario M1H 1H9	Non-flameproof Diesel Powered Machine Powered by a 3B Series Diesel Engine	536-01	June 3, 1985

CATEGORY 7 - FIRE-RESISTANT ELECTRICAL CABLES

Holder of Certificate	Description	Certificate No	Effective Date
Anaconda-Ericsson Inc. Wire and Cable Division East 8th Street Marion, Indiana 46952 Canadian Agent: Oak Supply Inc. P.O. Box 512 Markham, Ontario L3P 3R1	"Securityflex" Type SHD-GC	460	Sept. 20, 1982
Anixter Canada Inc. 2975 Victoria Street Lachine, Quebec H8S 1Z4	Fire Resistant Communication Cable, Devco Technical Specification No. 10-26, 75 OHM RG 11A/U With Galvanized Steel Interlocking Armour	555-01	Mar. 8, 1985
Canada Wire and Cable Ltd. 1397 Buffalo Place Winnipeg, Manitoba R3T 1L6	FIREX II Teck 90 and Teck 90 (-40°C) Cables, Single or Multiconductor, 14AWG to 2000MCM 600 to 5000 VAC (max.)	596	Feb. 5, 1985
Carol Cable Co. 3166 Lake City Way Burnaby, B.C. V5A 3A4	Fire-Resistant Mining Cables Mine Power Feeder Cable Sizes 6 AWG to 250 MCM Incl., 8KV, 3 Conductor	517	July 15, 1983
	Fire-Resistant Mining Trailing Cables Type SHD-GC Rated at 2, 5, 8 and 15 kV, 8 AWG to 500 MCM Inclusive	445	June 15, 1982

CATEGORY 7 - FIRE-RESISTANT ELECTRICAL CABLES (Cont'd)

Holder of Certificate	Description	Certificate No	Effective Date
Calflex Cables Division of Communications and Control Engineering Co. Park Road Calverton Nottingham, England Ng14 6LL	Fire-Resistant Mine Cable Cat. No. 3356,	309-02	July 18, 1983
	Fire Resistant Armoured Control Cable	309-01	July 22, 1981
	PVC Insulated Pullwire Control Cable	309	Oct. 5, 1977
Hawker Siddeley Diesels and Electrics Ltd. 355 Wyecroft Road Oakville, Ontario L6K 2H2	Portable Mining Cables Types 63 and 64	327-01	June 4, 1979
	Portable Mining Cables Types 7 and 62, 660/1130 V	327	June 20, 1978
Phillips Cables Ltd. King Street West Brockville, Ontario K6V 5W4	Fire Resistant Trailing Cables Type SHD-GC, Rated at 2, 5, 8, 15 and 25 kV	400	Apr. 10, 1981
	Fire Resistant Trailing Cables Type G-GC and Type SHD-GC	400-01	May 26, 1981
	Fire Resistant Mining Cable "Teck 90", Sizes 14 AWG to 2000 MCM Inclusive, 600 to 5000 V	400-05	Aug. 12, 1983
	Fire Resistant Mining Cable Type HV Teck (-40°C) Sizes 6 AWG to 1000 MCM, 8 to 35 kV	400-06	Jan. 26, 1984
	Fire Resistant Trailing Cables "Wall Face" Sizes 8 AWG to 5000 MCM, Rated at 2 to 25 kV	400-02	July 17, 1981
	Fire Resistant Cables Types 61 and 63 Coal Face Lighting Cables	400-03	Sept. 25, 1981
	Fire Resistant Control Cables No. 60020 and 60024	400-04	Oct. 14, 1982

CATEGORY 7 - FIRE-RESISTANT ELECTRICAL CABLES (Cont'd)

Holder of Certificate	Description	Certificate No	Effective Date
Pirelli Cables Inc. 65 Richelieu Saint-Jean-sur-Richelieu, Quebec J3B 6Z2	Fire Resistant Mining Cables "Riser TECK" No. 6 AWG to 750 MCM, 15 kV or Less	392-04	Dec. 27, 1985
	Fire-Resistant Mining Cables, Interlocked Armoured Teck Cable No. 6 AWG to 750 MCM Incl., 15000 V or Less, 3 Conductor	392-03	July 15, 1983
	Mining Cables - Interlocked Armoured TECK, #6 AWG to 750 MCM, 15000 V or Less	392-03	July 15, 1983
	Fire Resistant Mining Cables Types SHD-GC and SHD, SGC-GC, G and G-GC	392	Jan. 26, 1980
	Fire Resistant Mining Cables Type 7, #6 AWG to 500 MCM	392-01	Sept. 24, 1981
Rome Cable Corp. 421 Ridge Street Rome, NY, U.S.A. 13440	Fire-Resistant Electric Trailing Cable Type G-GC Sizes No. 6 AWG to 500 MCM Inclusive, 2 kV	507	Apr. 13, 1983
Trans-Canada Electro Ltd. 373 Mondor Street St. Hyacinthe, Quebec J2S 5A6	Fire-Resistant Shielded Communications Cables Overall PVC Jacketed, Types 644-216 (2 Conductor), and 633-316 (3 Conductor)	543	Nov. 21, 1983
	Multi-Pair Mine Communication Cable, Type IW 25P19	548	Dec. 18, 1983
	Multi-Pair Mine Communication Cable, Type IW 25P19	548	Dec. 18, 1983

CATEGORY 8 - FIRE-RESISTANT AND ANTI-STATIC DUCTS AND PIPES

Holder of Certificate	Description	Certificate No	Effective Date
Elreco Corp. 2000 Central Ave. Cincinnati, Ohio 45214	Fire-Resistant Trolley Guard "Panthergard" 12 in. and 18 in.	393	Feb. 11, 1981
Fabrene Inc. P.O. Box 4040 North Bay, Ontario P1B 9B4	Fire-Resistant Duct Material "Fabrene" RTPEE for Non-Gassy Mines Only	533	Aug. 31, 1983
	FABRENE RTPEE Flexible Ventilation Material	533-01	Jan. 4, 1985
	Fire-Resistant Duct Material "Fabrene" RTPNN and RTENN for Non-Gassy Mines Only	518	July 15, 1983
General Mining and Engineering Services Ltd. Portex House Newburn Bridge Road Ryton Industrial Estate Blaydon, Tyne and Wear, England NE21 4T3	Type GMES/NP5.5	622	Aug. 7, 1985
	Type GM 892	619	July 8, 1985
	Fire-Resistant and Anti Static Flexible Ventilation Ducting "General Mining 12F100S"	529	Aug. 19, 1983
Canadian Agent: Martin Equipment Ltd. P.O. Box 1600 Sydney, Nova Scotia B1P 6R8	Flexible Mine Duct Material "General Mining 12F100SVG"	529-01	Sept. 21, 1983
J.H. Fenner and Co. Ltd. Marfleet, Hull, England HU9 5RA	Flexible Duct Material Type SBS70/151/1	609	May 8, 1982

CATEGORY 8 - FIRE-RESISTANT AND ANTI-STATIC DUCTS AND PIPES (Cont'd)

Holder of Certificate	Description	Certificate No	Effective Date
Maschinenfabrik Korfmann GMBH Postfach 1749-5610 Witten, West Germany Canadian Agent: Noval Technologies Ltd. P.O. Box 2206 Station M Halifax, Nova Scotia B3J 3C4	Rigid Plastic Pipe "Wavin AS100" 50, 75, and 90 mm Diameter For Methane Drainage	422	Dec. 2, 1981
Peabody ABC Warsaw, Indiana, U.S.A Canadian Agent: ABC Manufacturers of Canada Ltd. 2401 Thayer Ave. P.O. Box 1805 Saskatoon, Sask. S7K 3S2	"Anti-Static Rigiduct" Ventilating Duct	329	July 14, 1978
Ameron Corp. Cannons Camp Ground Park Police Club Road P.O. Box 5723 Spartanburg, South Carolina 29302 Canadian Agent: PSC Industries Ltd. Formerly: Pipe Specialists of Canada 705 Progress Street Unit 38 Scarborough, Ontario	Fire-Resistant Plastic Pipe "Bondstrand" FRP Series 1600	361	Feb. 27, 1980

CATEGORY 8 - FIRE-RESISTANT AND ANTI-STATIC DUCTS AND PIPES (Cont'd)

Holder of Certificate	Description	Certificate No	Effective Date
Schauenburg Industries Ltd. 1904 Bond Street P.O. Box 261 North Bay, Ontario P1B 8G8	Fire Resistant Rigid Fibreglass Mine Ventilation Ducting, 12 to 60 in. diam	395	Feb. 9, 1981
	Fire Resistant and Anti Static Rigid Fibreglass Mine Ventilation Duct Type A-S-8	395-01	July 22, 1981
	Rigid Fibreglass Ventilation Duct	330	July 14, 1978
	Flexible Ventilating Duct Material Type V1000S	392	Jan. 21, 1981
Tom Roy Fiberglass Manufacturing Ltd. R.R. No. 3 Athens, Ontario K0E 1B0	Fire Resistant Fibreglass 36" I.D. Round Rigid Ventilation Duct For Use in Non-Gassy Mines Only Type TMM36-0001	558	Mar. 7, 1984
	Ducting to 51 cm Nominal Diameter, Using Resin DION FR 6609 T	617	Aug. 14, 1985
Twinpak Inc. 369 Elgin Street P.O. Box 1480 Brantford, Ontario N3T 5V6	Tri-Flex Flamtard Type L and H	603	Mar. 21, 1985
Vintex Inc. 1 Royce Ave. Brampton, Ontario L6Y 1J4	Vinstat II-3000	430-04	July 8, 1985
	Vinstat II-1000	430-05	July 8, 1985

CATEGORY 9 - COMBUSTIBLE GAS DETECTION EQUIPMENT

Holder of Certificate	Description	Certificate No	Effective Date
Enmet Canada Ltd. 2600 Edenhurst Drive Mississauga, Ontario L5A 3Z8	Continuous Duty Stationary Combustible Gas Detection Instrument, Enmet Type ISA-7H, With Type D1 5/6 Remote Detector Head	552	Jan. 25, 1984
General Monitors Inc. 3037 Enterprise Street Costa Mesa, California, U.S.A. 92626	Machine Mounted Methane Detection Machine System Model 420D	366	July 17, 1980
Oldham Batteries Ltd. Denton Manchester M34 3AT England Canadian Agent: Martin Equipment Ltd. P.O. Box 1600 Sydney, Nova Scotia B1P 6R8	Miner's Caplamp With Built-In Combustible Gas Detection Instrument Model M, With Battery Model T2	572	July 19, 1984

CATEGORY 10 - FIRE-RESISTANT HYDRAULIC FLUIDS

Holder of Certificate	Description	Certificate No	Effective Date
BASF Wynadotte Corp. P.O. Box 181 Parsippany, New Jersey, U.S.A. 07054	Plursafe P-1210 Hydraulic Fluid	604	Mar. 25, 1985
Blacksmith Chemical Services Ltd. Formerly: Ultraglide Ltd. Minto Ave. Altens Industrial Estate Aberdeen, Scotland, U.K. AB1 4JZ	"Ultraglide Gold Line" Water Glycol Type Fire Resistant Hydraulic Fluid	404-01	Dec. 6, 1985
Century Oils Ltd. (U.K.) Hanley Stoke-on-Trent P.O. Box 2 Staffordshire, England ST1 5HU	"Fosfocent 430" and "Fosfocent 600" Fire Resistant Hydraulic Fluids	321-01	Dec. 9, 1980
Century Oils Ltd. (U.K.) Hanley Stoke-on-Trent P.O. Box 2 Staffordshire, England ST1 5HU Canadian Agent: Century Oils (Canada) Ltd. 19829-99A Ave. Langley, B.C. V3A 4P8	Fire-Resistant Hydraulic Fluids Water Glycol Type "Super Glycol"	321-03	June 7, 1983
Century Oils (Canada) Ltd. Formerly: Production Supply Co. Ltd. 19829-99A Ave. Langley, B.C. V3A 4P8	Fire-Resistant Hydraulic Fluids Water Glycol Type "FRX Special Light" and "FRX Special Medium"	482-01	June 7, 1983

Holder of Certificate	Description	Certificate No	Effective Date
Century Oils Ltd. (U.K.) Hanley Stoke-on-Trent P.O. Box 2 Staffordshire, England ST1 5HU Canadian Agent: Century Oils (Canada) Ltd. 19829-99A Ave. Langley, B.C. V3A 4P8 Formerly: Production Supply Co. Ltd.	Synthetic Type Phosphate Ester N.T.P. and Fosfocent 200	321-02	Feb. 8, 1982
Century Oils (Canada) Ltd. Formerly: Century Production Ltd. 19829-99A Ave. Langley, B.C. V3A 4P8	Fire-Resistant Hydraulic Fluids Water-in-Oil Type "Aquacent Light" and "Aquacent Heavy"	482	Dec. 21, 1982
Ciba-Geigy Plastics and Additives Company (U.K.) Tenax Road Trafford Park Manchester, U.K. M17 1WT Canadian Agent: Ciba-Geigy Canada Ltd. (Don Mills) 858 York Mills Road Don Mills, Ontario M3B 3A8	Reolube Hyd 46	412	July 23, 1981
D.A. Stuart Inc. 43 Upton Road P.O. Box 430 Scarborough, Ontario M1K 5C3	Fire-Resistant Hydraulic Fluids Dasco FR-151 and Dasco FR-201	532	Aug. 31, 1983

CATEGORY 10 - FIRE-RESISTANT HYDRAULIC FLUIDS (Cont'd)

Holder of Certificate	Description	Certificate No	Effective Date
E.F. Houghton and Co. Canada Ltd. 100 Symes Road P.O. Box 113, Station "D" Toronto, Ontario M6P 3J5	"Houghto-Safe" 419, 520 and 620	322-02	Jan. 22, 1982
	"Houghto Safe 1110"	322-01	June 29, 1979
	"Houghto Safe 1120", "Houghto Safe 5020" and "Houghto Safe 5047F"	322	Feb. 15, 1978
Forsythe Lubrication Associates Ltd. 120 Chatham Street Hamilton, Ontario L8P 2B5	WG200R Fire-Resistant Hydraulic Fluid	423	Dec. 9, 1981
Gulf Canada Ltd. 2489 North Sheridan Way Sheridan Park, Ontario L5K 1A8	FRF 1 and FRF 2 Fire Resistant Hydraulic Fluids	389	Jan. 12, 1981
H.L. Blachford Ltd. 2323 Royal Windsor Drive Mississauga, Ontario L5J 1K5	Quintolubric Types 822-220, 822-300, 822-450	623	Aug. 12, 1985
	Quaker Quintolubric 958-30 and 958-50	368-01	Aug. 12, 1985
Imperial Oil Ltd. 55 St Clair Ave. West Toronto, Ontario M5W 2J8	Water-in-Oil Types "IOGARD" E68 and E100 Water Glycol Types "IOGARD" G32 and G40 Phosphate Ester Type "IOGARD" P41	441	June 2, 1982

CATEGORY 10 - FIRE-RESISTANT HYDRAULIC FLUIDS (Cont'd)

Holder of Certificate	Description	Certificate No	Effective Date
Mobil Oil Corp. 3225 Gallows Road Fairfax, Va 22037 Canadian Agent: Imperial Oil Ltd. 55 St Clair Ave. West Toronto, Ontario M5W 2J8	Fire-Resistant Hydraulic Fluid Pyrogard D	360	Feb. 7, 1980
Pennwalt Inc. 700 Third Line Oakville, Ontario L6J 5A3	Keystone FR-160 and Keystone FR-200	618	June 27, 1985
Shell Canada Ltd. Box 400, Terminal A Toronto, Ontario M5W 1E1	Fire-Resistant Hydraulic Fluids Shell Water Glycol F.R. Hydraulic Fluid 46 and 48	535	Sept. 21, 1983
	Fire-Resistant Hydraulic Fluid Water-in-Oil type CLX 1172	514	June 14, 1983
	Fire-Resistant Hydraulic Fluids IRUS BLT 100 (Invert Emulsion)	536	Sept. 21, 1983
	Fire Resistant Hydraulic Fluid Water In Oil Type "Irus" BLT 100	354-01	Feb. 10, 1982
	Irus B-100 Fire Resistant Hydraulic Fluid	354	Oct. 15, 1979
Surbond Lubricants Ltd. 89 Nipissing Road Milton, Ontario L9T 1R3	"Sursafe" IE-30 and IE-45 Water in Oil "Sursafe" 160 and 200 Water Glycol Types	442	June 2, 1982

CATEGORY 10 - FIRE-RESISTANT HYDRAULIC FLUIDS (Cont'd)

Holder of Certificate	Description	Certificate No	Effective Date
Texaco Canada Inc. 1210 Sheppard Ave. East North York, Ontario M2K 2S8	Safetytex TC 46	625	Aug. 15, 1985
	Hydraulic Safety 46	626	Aug. 15, 1985
Union Carbide Canada Ltd. P.O. Box C.P. 700 Pointe-aux-Trembles, Quebec H1B 5K8	Fire Resistant Hydraulic Fluid Water Glycol Ucon Hydrolube 321	406-02	Mar. 29, 1984
	Fire Resistant Hydraulic Fluid Water Glycol Ucon Hydrolube 221	406-01	Dec. 22, 1983
	Ucon Hydrolube FI-100-25 and FI-100-35	446	June 7, 1982
	Water Glycol Types UCON Hydrolube 461 and UCON Hydrolube 681	406-03	Sept. 18, 1985

CATEGORY 11 - FLAMEPROOF AND INTRINSICALLY SAFE REPAIR FACILITIES

Holder of Certificate	Description	Certificate No	Effective Date
Cape Breton Development Corp. (Macvicar) P.O. Box 2500 Sydney, Nova Scotia B1P 6K9	Central Shops	426	Jan. 7, 1982
Westar Mining Ltd. Formerly: B.C. Coal Ltd. P.O. Box 2000 Sparwood, B.C. V0B 2G0	Central Repair Shops	383-01	May 26, 1981

CATEGORY 12 - MINERS' CAP CAMPS (NON-INTRINSICALLY SAFE)

Holder of Certificate	Description	Certificate No	Effective Date
Concordia Elektrizitaets Aktien Dortmond, West Germany Canadian Agent: Hansa Mining Equipment Ltd. Box 1510 Sparwood, B.C. V0B 2G0	Miners Cap Lamp Type MLC 5.1	362	Mar. 4, 1980
Koehler Mfg. Co. Box 8 Marborough, Mass, U.S.A. 02752-9018	Miner's Cap Lamp Model No. 5800	372	Dec. 2, 1980
	5200 Miner's Cap	097	Oct. 10, 1967
	Miner's Cap Lamp Model 6100	372-01	Dec. 5, 1980
	Miner's Caps Models 282-1A and 5100	061	Apr. 6, 1965
Mine Safety Applicances Co. Mars-Evans City Road Evans City, P.A., U.S.A. Canadian Agent: MSA Canada Inc. 148 Norfinch Drive North York, Ontario M3N 1X8	MSA Minespot Cap Lamp Model ML-2	093	Feb. 7, 1968
	MSA Minespot Cap Lamp	039	Sept. 18, 1963
MSA Canada Inc. 148 Norfinch Drive North York, Ontario M3N 1X8	ML-200 Minespot Cap Lamp, MSA Part No. 476710	595-01	July 15, 1985

CATEGORY 12 - MINERS' CAP CAMPS (NON-INTRINSICALLY SAFE) (Cont'd)

Holder of Certificate	Description	Certificate No	Effective Date
Oldham Batteries Ltd. Denton Manchester M34-3AT U.K. Canadian Agent: Martin Equipment Ltd. P.O. Box 1600 Sydney, Nova Scotia B1P 6R8	Miner's Cap Lamp With Built-In Combustible Gas Detection Instrument Model M, With Battery Model T2	572	July 19, 1984
	Type G Miner's Cap With Type T Battery	339	July 25, 1979

CATEGORY 13 - SEALING COMPOUNDS

Holder of Certificate	Description	Certificate No	Effective Date
Dow Corning Canada Inc. 6747 Campobello Road Mississauga, Ontario L5N 2M1	Fire-Resistant Cable Sealing Compound "Dow Corning 3-6548 RTV Foam"	519	July 19, 1983
	Fire-Resistant Cable Sealing Compound Dow Corning "Fire Stop" Sealant, Cat. No. 2000	519-01	July 10, 1985
	Fire-Resistant Cable Sealing Compound Dow Corning "Fire Stop" Foam, Cat. No. 2001	519-02	July 10, 1985

APPENDIX 'A'

Cancelled Certificates Listing

This appendix lists products and materials which are no longer in production, and have been deleted from the list of certified products. Although these products are no longer in production, the applicable EMR certifications remain valid for such items currently in use, or in storage to be used at some future date. However, no new production is permitted of items listed in this Appendix without prior application being made to EMR. Manufacturers of the products listed herein have provided written statements to EMR to the effect that no new production of such products will occur.

CATEGORY 2 - CANCELLED CERTIFICATES

Holder of Certificate	Description	Certificate No	Effective Date
Simplex Electrical Ltd. Formerly: Wallacetown Engineering Simplex Electrical Ltd Heathfield Road Ayr Ayrshire KA8 9SH U.K. Co. Ltd. Canadian Agent: Petro-Canada Products Ltd. P.O. Box B Kipp, Alberta TOC 1CO	Fourteen Flameproof Electric Gate-End Boxes Type P70-150, Serial Nos. FT-53866, 53871, 53909, 53910, 55440, 01, 02, 03, 56915, 96, 97 and 98	382	Dec. 11, 1980

CATEGORY 3 - CANCELLED CERTIFICATES

Holder of Certificate	Description	Certificate No	Effective Date
Casella London Ltd. Regent House, Britannia Walk London, England N1 2ND	Intrinsically Safe Dust Sampler Type 113A	352	Nov. 1, 1979
Wild Leitz Canada Ltd. 513 McNicoll Ave. Willodale, Ontario M2H 2C9	Electronic Distance Measuring Equipment "Citation" Models CI 410 and CI 450	470	Oct. 8, 1982

CATEGORY 4 - CANCELLED CERTIFICATES

Holder of Certificate	Description	Certificate No	Effective Date
Scandura Ltd. (U.K.) P.O. Box 18 Cleckheaton, West Yorkshire England BD19 3UJ	FRAS 2801	343-07	June 7, 1985
	Fire-Resistant and Anti-Static Conveyor Belting "Gold Line" Type FRAS 6500	343-06	Aug. 26, 1983
	Fire-Resistant and Anti-Static Conveyor Belting "Gold Line FRAS 15,000"	343-03	June 14, 1983

CATEGORY 10 - FIRE-RESISTANT HYDRAULIC FLUIDS (Cancelled)

Holder of Certificate	Description	Certificate No	Effective Date
Petro-Canada Products Ltd. 240 Duncan Mill Road Don Mills, Ontario M3B 3B2	Fire Resistant Hydraulic Fluid, Synthetic Type "Hydroflo" FR-D-46	429-01	Oct. 14, 1984
Petro-Canada Products Ltd. 240 Duncan Mill Road Don Mills, Ontario M3B 3B2	Fire Resistant Hydraulic Fluid, Synthetic Type "BP Energol" SF-D-46	429	Feb. 8, 1982
Petro-Canada Products Ltd. 240 Duncan Mill Road Don Mills, Ontario M3B 3B2	Water-in-Oil type Hydraflo FR-B-13 Fire Resistant Hydraulic Fluid	589	Nov. 29, 1984

APPENDIX 'B'

Inactive Certificates Listing

Where there is no present production, and if production does not commence within a period of three years, the certificate will automatically be placed on inactive status. If, however, production starts within a three year period, the holder of the certificate must notify EMR to have the products re-examined before being placed in an active category.

CATEGORY 2 - INACTIVE CERTIFICATES

Holder of Certificate	Description	Certificate No	Effective Date
Anderson Strathclyde PLC 47 Broad Street Glasgow, G40 2QW Scotland, U.K.	Road Heading Machine Model RH22	464	Dec. 7, 1982
Deron Products P.O. Box 603 Goshen Road Morgontown, West Virginia, U.S.A. 26505	Flameproof Electrical Trickle Duster Model ETD2-460/575, Rated at 2 HP, 575 VAC	556	Feb. 23, 1984
EMR - Mining Research Laboratory 555 Booth Street Ottawa, Ontario K1A 0G1	Baldwin Type N, SR-4 Portable Strain Indicator Serial No. 900700	547	Dec. 2, 1983
John Davis & Son (Derby) Ltd. Formerly: Davis of Derby Alfreton Road Derby, DE24AB U.K. Canadian Agent: Petro-Canada Products Ltd. P.O. Box B Kipp, Alberta T0C 1C0	Lighting and Signalling Transformer 650 V and Less (Primary), 115/125 V (Secondary), Single Phase, 60 Hz, 750 VA, Serial No. 1439-L	380	Dec. 11, 1980
Joy Manufacturing Co. (U.S.) 325 Buffalo Street Franklin, Penn. 16323	Pull Cord Switch Assembly 569028-1	324	May 3, 1978
	Cable Reel Assemblies	302	May 27, 1977

CATEGORY 2 - INACTIVE CERTIFICATES (Cont'd)

Holder of Certificate	Description	Certificate No	Effective Date
	Assembly of Electrical Components for Transformer (11 KVA, 1100 V PRI., 550 V Sec), Motor (10 HP, 550 V, 3 Phase, 60 Hz)	155	Nov. 3, 1969
	Assembly of Electrical Components for Bridge Controller 546797	198	May 26, 1971
	Assembly of Electrical Components for Controllers CD 3893, CD 3342	203	July 19, 1971
	Safety Circuit Centres 546785 FB-FB-FB-FB	197	May 25, 1971
Milltronics Ltd. 730 The Kingsway Peterborough, Ontario K9J 6W6	Flameproof Electrical Ultrasonic Level Transducers Models LR21FM and LR13FM	581	Nov. 9, 1984

CATEGORY 3 - INACTIVE CERTIFICATES

Holder of Certificate	Description	Certificate No	Effective Date
Energetics Science Co. Ltd. 6 Skyline Drive Hawthorne, New York, U.S.A. 10532	A Carbon Monoxide Sensing Unit Model 5001-DG	500	Mar. 18, 1983
GLI Corporation P.O. Box 245 Woodinville, Washington, U.S.A. 98072	Intrinsically Safe Radio Remote Control System Model 651	530	Aug. 22, 1983
Golder Associates 3151 Wharton Way Mississauga, Ontario L4X 2B6	Intrinsically Safe Strain Measuring Equipment for Underground Coal Mines	506	June 1, 1983
KDG Instruments Ltd. Crompton Way Crawley West Sussex RH10-2Y2	Intrinsically Safe Electronic Level Monitoring Comprised of Series 8000 Transmitter and Series 8200 Indicator	562	Mar. 27, 1984
Canadian Agent: Bestobell Canada Ltd. 245 Norseman Street Toronto, Ontario M8Z 2R5	Intrinsically Safe Electronic Pressure Transmitter Model 6320	563	Mar. 27, 1984
Milltronics Ltd. 730 The Kingsway Peterborough, Ontario K9J 6W6	Motion Failure Alarm Type 4	418	Mar. 14, 1983
	Model ISCS-1	414	Sept. 8, 1981

CATEGORY 3 - INACTIVE CERTIFICATES (Cont'd)

Holder of Certificate	Description	Certificate No	Effective Date
National Mine Service Industrial Safety Div. Oakdale, P.A. 15071 Canadian Agent: Safety Supply Canada Ltd. 90 West Beaver Creek Road Richmond Hill, Ontario L4B 1E7	Portable Oxygen Monitor Type DX230	496	Feb. 7, 1983
	Portable Sampling Pump Type SP 200	495	Feb. 7, 1983
Nikon Camera Co. Canadian Agent: Cape Breton Coal Research Lab 210 George Street Sydney, Nova Scotia B1P 1J3	Nikon Nikonos IV-A Camera and a Cosina Seamaster S.T. Underwater Flash Unit	545-01	May 16, 1985
Nikon Camera Co. Canadian Agent: Coal Mining Research Centre 2nd Fl., Sir John Franklin Bldg. 11111 - 87th Ave. Edmonton, Alberta T6G 0X9	Nikon Nikonos IV-1 Camera and a Cosina Seamaster S.T. Underwater Flash Unit	545	Nov. 25, 1983

CATEGORY 3 - INACTIVE CERTIFICATES (Cont'd)

Holder of Certificate	Description	Certificate No	Effective Date
Rootest Inc. 665 Pine St Lambert (Montreal), Quebec J4P 2P4	Intrinsically Safe Battery Powered Convergence Meter Model CDR-P	520-01	Oct. 9, 1984
	Intrinsically Safe Convergence Meter With Digital Readout Model CDR-P/R	520	May 10, 1984
Untertage Maschinenfabrik 6602 Dudweiller/Saar Postfach, West Germany 1380 Canadian Agent: Scharf Co. (U.S.)	Hydraulic Drive and Control System	607	Apr. 22, 1985

CATEGORY 4 - INACTIVE CERTIFICATES

Holder of Certificate	Description	Certificate No	Effective Date
Bando Rubber Manufacturing Co. Ltd. No. 2 Nagaoka Bldg. 6 Nishi-Hacchobori, Chuoku Tokyo, Japan	Bando Fire Resistant No. 100 Steel Cord Conveyor Belt	142	Jan. 16, 1969
	Bando Fire Resistant No. 100	151	July 18, 1969
	Bando Conveyor Belt Fire Resistant Type No. 300	117	Apr. 18, 1968
	Bando Conveyor Belt Fire Resistant Type No. 300	081	Dec. 8, 1966
BTR Belting Ltd. 77 Carlingview Drive Rexdale, Ontario M9W 5E6 Canadian Agent: BTR Industries Canada Ltd. 593 Trethewey Drive Toronto, Ontario M6M 4B8	5 Ply Fire Resistant Conveyor Belting	229	Dec. 7, 1972
	4 Ply Fire Resistant Conveyor Belting	230	Dec. 7, 1972
	BTR Silvercord-Steelcord Conveyor Belting	277	Sept. 30, 1975
	4 Ply Fire-Resistant Conveyor Belting	248	Aug. 13, 1973
	Silverply Conveyor Belting 540/3	323	May 4, 1978
Cable Belt Ltd. Yorktown House 8 Frimley Road Camberley, Surrey GU15 3HS	Off-Set Shoe Belt	291-01	Feb. 14, 1977
	Inline Shoebelt, dwg. No. 3/7/25A	291	Oct. 6, 1976
Dunlop Belting Division P.O. Box 15 Chesire, WA8 8PS U.K. Canadian Agent: Dunlop Industrial Ltd. 3 Pullman Court Scarborough, Ontario M1X 1E5	Fire-Resistant and Anti-Static Conveyor Belting "Starflex" 315 FRAS and 525 FRAS	487	Apr. 13, 1983

CATEGORY 4 - INACTIVE CERTIFICATES (Cont'd)

Holder of Certificate	Description	Certificate No	Effective Date
Georgia Duck and Cordage Mill Scottdale, Georgia, U.S.A. 30079	PVK1000	222-06	Feb. 9, 1981
	PVK800S	222-07	Feb. 9, 1981
	Fire Resistant and Anti Static Conveyor Belting PV800	222-09	July 21, 1982
	Fire-Resistant and Anti-Static Conveyor Belting "PVK5000"	222-10	Nov. 3, 1983
	PVK350, PVK470 and PVK500	222-08	July 23, 1981
	"Poly-Vinyloc" PVK1200	222-05	June 6, 1980
	Poly-Vinylok Styles PVK610 and PVK750	283	Feb. 11, 1976
Greengate Industrial Polymers Ltd. Ordsall Lane Salford, England M54TD	4/4, 5/4, 800/4, Reference Nos. C40A, C40B, C40C	304	June 23, 1977
Yokohama Rubber Co. Ltd. P.O. Box 46 Shiba, Tokyo, Japan	Yokohama Fire Safety Steel Cord Conveyor Belt	137	Oct. 2, 1968
Yokohama Rubber Co. Ltd. P.O. Box 46 Shiba, Tokyo, Japan	Fire Safety Nylon Duck Conveyor Belting NN-200 With Chroloprene Flame Resistant Rubber Cover	149	Apr. 21, 1969

CATEGORY 5 - INACTIVE CERTIFICATES

Holder of Certificate	Description	Certificate No	Effective Date
Envirotech Corp. (Eimco Tunnelling & Mining Div.) 537 West Sixth South Salt Lake City, Utah 84110	Eimco Model 913 LHD Diesel Machine	280-01	Apr. 4, 1977
	Eimco Model 913 LHD Diesel Machine	280	Nov. 3, 1976
	Eimco Model 975 Diesel Truck	278	Dec. 31, 1976
	Eimco Model 915E LHD Diesel Machine	267	Feb. 21, 1975
J. Kyle Gardiner Engineering Ltd. 885 Eyremount Drive West Vancouver, B.C. V7S 2B2	Plate-Type Exhaust Flame Trap	281	Mar. 19, 1976
Machinenfabrik Scharf GMBH 47 Hamm (West F) P.O. Box 74 Germany	Scharf Flameproof Diesel Monorail Locomotive DZ 66.2	331	Feb. 26, 1979
Wagner Mining Equipment Inc. P.O. Box 2037 Portland, Oregon, U.S.A. 97220	Model HMTT-410(S) Diesel Teletram	286	May 20, 1977
	Type ST-5A(S) Diesel Scooptram	250	Oct. 1, 1974
	Wagner Mining Equipment Diesel Scooptram Type ST-5A(S) Serial No. 197-73	240	May 7, 1973

CATEGORY 6 - INACTIVE CERTIFICATES

Holder of Certificate	Description	Certificate No	Effective Date
DUX Machinery Corp. 615-621 Lavoisier P.O. Box 80 Repentigny, Montreal, Quebec J6A 5H7	L112 Underground Load-Haul-Dump Vehicle	412	June 17, 1983
J.I. Case Company 2345 Stanfield Rd. Suite 200 Mississauga, Ontario L4Y 3Y3	Mercedes Benz "Unimog" Truck	282	Feb. 10, 1976

CATEGORY 7 - INACTIVE CERTIFICATES

Canada Wire and Cable Ltd. 1397 Buffalo Place Winnipeg, Manitoba R3T 1L6	Fire Resistant Mine Power Cables Type MP-GC Sizes 8 AWG to 1000 MCM	314-01	July 17, 1981
	Portable Mining Cables Type G, Conductor Sizes 0-4 Inclusive. Shuttle Car Cable Conductor Size No. 2 AWG, Type SHD-GC Crosslinked Poyethylene, No. 2 AWG	314	Oct. 26, 1977
	Fire-Resistant Communication Cables 2 to 100 Pairs, 19 AWG	508	June 19, 1983

CATEGORY 8 - INACTIVE CERTIFICATES

Holder of Certificate	Description	Certificate No	Effective Date
Stedfast Inc. 230 St. Charles South Granby, Quebec J2G 8E9	Fire Resistant and Anti Static Duct Material "Stedcover #199"	462	Sept. 17, 1982

CATEGORY 9 - INACTIVE CERTIFICATES

Holder of Certificate	Description	Certificate No	Effective Date
National Mine Service 355 Steubenville Pike Oakdale, PA U.S.A Canadian Agent: Safety Supply Canada Ltd. 90 West Beaver Creek Road Richmond Hill, Ontario L4B 1E7	Intermittent Duty Portable Methane Gas Detection Instrument, Model CD210	541	Oct. 14, 1983
	Hand Held Combination Oxygen/Methane Gas Indicator Model MX240	503	Apr. 7, 1983

CATEGORY 10 - FIRE-RESISTANT HYDRAULIC FLUIDS (Inactive)

Holder of Certificate	Description	Certificate No	Effective Date
CITGO Petroleum Corp. Canadian Agent: Husco Industrial (B.C.) Ltd. Unit No. 407 5940 No. 6 Road Vancouver, B.C. V6V 1Z1	CTIGO Glycol FR-40XD	590	Nov. 30, 1984